ADITYA JAIN

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	8.617
2016	CBSE	Aklank Public School , Kota	93.00%
2014	CBSE	Hill Grove Col's Academy , Sumerpur	10

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Examination (JEE) Advanced Rank**: 96 (GE)
- Secured **54th position** in **ACM ICPC 2017 Asia Gwalior First Round** with a team of three members
- **KVPY:** Secured All India Rank 126 and eligible for scholarship under Kishore Vaigyanik Protsahan Yojana by IISc
- **NSEP(National Standard Examination in Physics):** placed in the top 1% of the total 44,032 student participants
- **NSEC(National Standard Examination in Chemistry):** placed in the top 1% of the total 39,671 student participants

INTERNSHIPS

- **TU Delft, Netherlands** *Prof. Alberto Bacchelli* (May, 2018 - July, 2018) : *Code Review Tool for Github*
  - Developed a chrome extension enabling better test code review practices through its altered viewing system
  - Integrated code navigation in Github using Language Server Protocol and Eclipse Java Language Server for JAVA
  - Designed it so that it can handle multiple branches of same repositories and therefore also in pull requests
  - Provided code coverage information using a third party API showing the line covered and the total percentage

PROJECTS

- **Navigation System for ETV Simulation (Subodh Kumar)** (January, 2018 - May, 2018) :
  - Worked on the navigation system of haptic device in the simulation of surgery of a brain disease called hydrocephalus
  - Made the movement of the haptic more intuitive by registering real world points to the virtual space ones
  - Calibrated the virtual space brain with a 3D one using three points

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- **Software Package for Engineering Drawing (Prof. Subhashis Banerjee)** *CourseProject*(January, 2018 - April, 2018) :
  - Developed a C++ package for conversions of given a orthographic image to isometric and vice versa
  - Designed the functional specification document for the software as well as UML diagrams for better understanding
  - Used Doxygen tool for the documentation and OpenGL and Qt for image rendering and GUI purpose

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- **Prolog Interpreter (Prof. Sanjiva Prasad)** *Course Project* (April, 2018 - May, 2018) :
  - Used OCaml-lex for token generation from the program code and OCaml-yacc for parsing the tokens
  - Backtracking and rule unification were used to implement the relational structure of the interpreter

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- **RAVI (M. Balakrishnan)** (August, 2017 - December, 2017) :
  - For reading of NCERT books for visually impaired Unicode Epub files were created from Non-Unicode Hindi files
  - Improved a pre-existing python program to convert non-unicode hindi Epub files to Unicode Epub files
  - Made a text parser in python to correct the errors in conversion of the files due to unexpected span tags

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- **Reversi Game (Prof. Anshul Kumar)** *Course Project* (February, 2018) :
  - First developed a high level model of the game in JAVA which can be used to write instructions in assembly
  - Created the game in ARM assembly language by creating instructions and simulated on Embest Board plugin
  - Additional support for predicted moves and undo moves was integrated

COURSES DONE

Intro. To Computer Science, Calculus, Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Discrete Mathematical Structur, Digital Logic & System Design, Probability & Stochastic Pro., Mini Project, Minor Design Project - Vi, Computer Architecture, Programming Languages, Design Practices, Introduction To Economics, Pesr Projects

TECHNICAL SKILLS

- **Languages:**C++, Java, Javascript, Python, HTML/CSS, OCaml, Prolog, TypeScript, Bash **Version Control:**Git
- **Softwares:**Xilinx ISE,Autodesk Inventor, Android Studio, Chai3D **Hardware:**VHDL

EXTRA CURRICULAR ACTIVITIES

- **Volunteer for AROHAN program:**taught the basics of electromagnetism to students preparing for JEE
- **Academic Mentor (Aug 2017 - April 2018):** Provided help to first year students facing problem in the course of APL100